AMENDMENTS TO THE CLAIMS:

1-10. [Cancelled]

- [Currently Amended] A solid oxide fuel cell comprising an electrode layer applied to an electrolyte layer wherein the electrode layer is not contiguous but rather is formed from a plurality of substantially discrete hexagonal elements separated by substantially <u>linear and</u> uniform gaps, <u>such that adjacent hexagons have parallel edges</u>, wherein the gaps take up less than about 2% of the surface area of the electrode.
- 12. [Currently Amended] A method of applying an electrode layer to an electrolyte layer in a SOFC comprising the steps of:
 - (a) providing a screen defining a pattern comprising a plurality of discrete elements;
 - (b) screen printing an electrode paste through the screen and onto the electrolyte such that the resulting electrode layer comprises a plurality of discrete elements which are separated by substantially <u>linear</u>, uniform and narrow gaps, <u>such that adjacent</u> polygonal discrete elements have parallel edges;
 - (c) sintering the electrode layer.
- 13. [Currently Amended] The method of claim 12 [[11]] further comprising the step of adding a contact paste layer over the electrode layer.
- 14. [Currently Amended] The method of claim 12 [[11]] wherein the discrete elements have a regular hexagonal shape and the pattern comprises a honeycomb array of elements.

- 15. [New] A solid oxide fuel cell comprising an electrode layer applied to an electrolyte layer wherein the electrode layer is discontinuous and comprises a plurality of substantially discrete polygonal elements separated by substantially uniform gaps, wherein adjacent polygonal elements have parallel edges.
- 16. [New] The solid oxide fuel cell of claim 15 wherein the polygonal discrete elements are hexagonal in shape.
- 17. [New] The solid oxide fuel cell of claim 17 wherein said hexagons are regular hexagons.
- 18. [New] The solid oxide fuel cell of claim 15 further comprising a contact paste layer applied to the electrode layer.
- 19. [New] The solid oxide fuel cell of claim 18 wherein the contact paste layer is a conducting ceramics including lanthanum cobaltate.
- 20. [New] The solid oxide fuel cell of claim 19 wherein the contact paste layer is not sintered prior to use.
- 21. [New] The solid oxide fuel cell of claim 15 wherein the gaps take up less than about 5% of the surface area of the electrode.
- 22. [New] The solid oxide fuel cell of claim 21 wherein the gaps take up less than about 2% of the surface area of the electrode.
- 23. [New] The solid oxide fuel cell of claim 22 wherein the gaps take up less than about 1% of the surface area of the electrode.